CALS TEST NETWORK

CTN Report 93-018

MIL-D-28000

Test Case

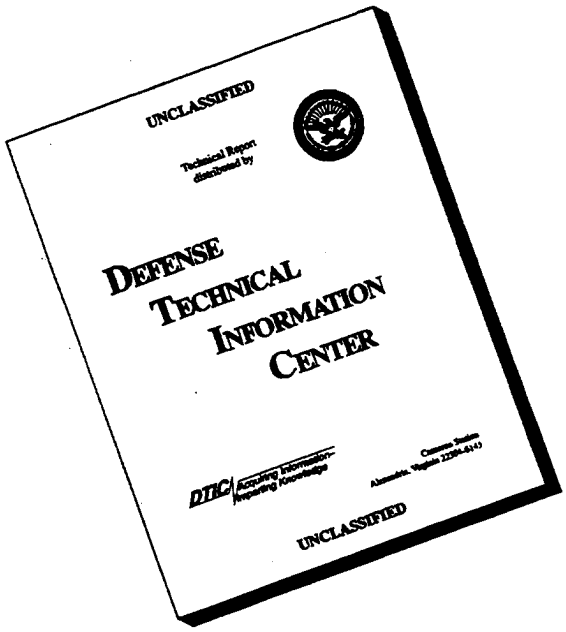
Index and Abstracts

19 March 1993

Prepared for

Electronic Systems Center

DISCLAIMER NOTICE



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Contents

1. Introduction

This guide provides abstracts of test cases developed according to reference [1], Test Case Development and Verification Guide for MIL-D-28000, for use in testing according to reference [2], Test Plan to Evaluate Computer-Aided Design Systems for MIL-D-28000 Compliance With Additional User Requirements. Reference [2] presents the procedures on testing Initial Graphics Exchange Specification (IGES) processors for compliance to a chosen class in MIL-D-28000, reference [3], and user-defined requirements.

2. Test Case Abstracts

Each abstract contains the following information:

- version number;
- date;
- compliance criteria;
- versions of documents to which the test case was developed;
- deviations.

The Table of Contents depicts an index of all test cases presently available. The abstracts can be found in Section 2, Test Case Abstracts.

2.1. PYRAMID

Version: B

Date: March 19, 1993

Concept or Application Scenario (circle one) CONCEPTS

Criteria: Complies with Classes II and IV
View/Drawing/Model relationships
Layering
Visualization techniques

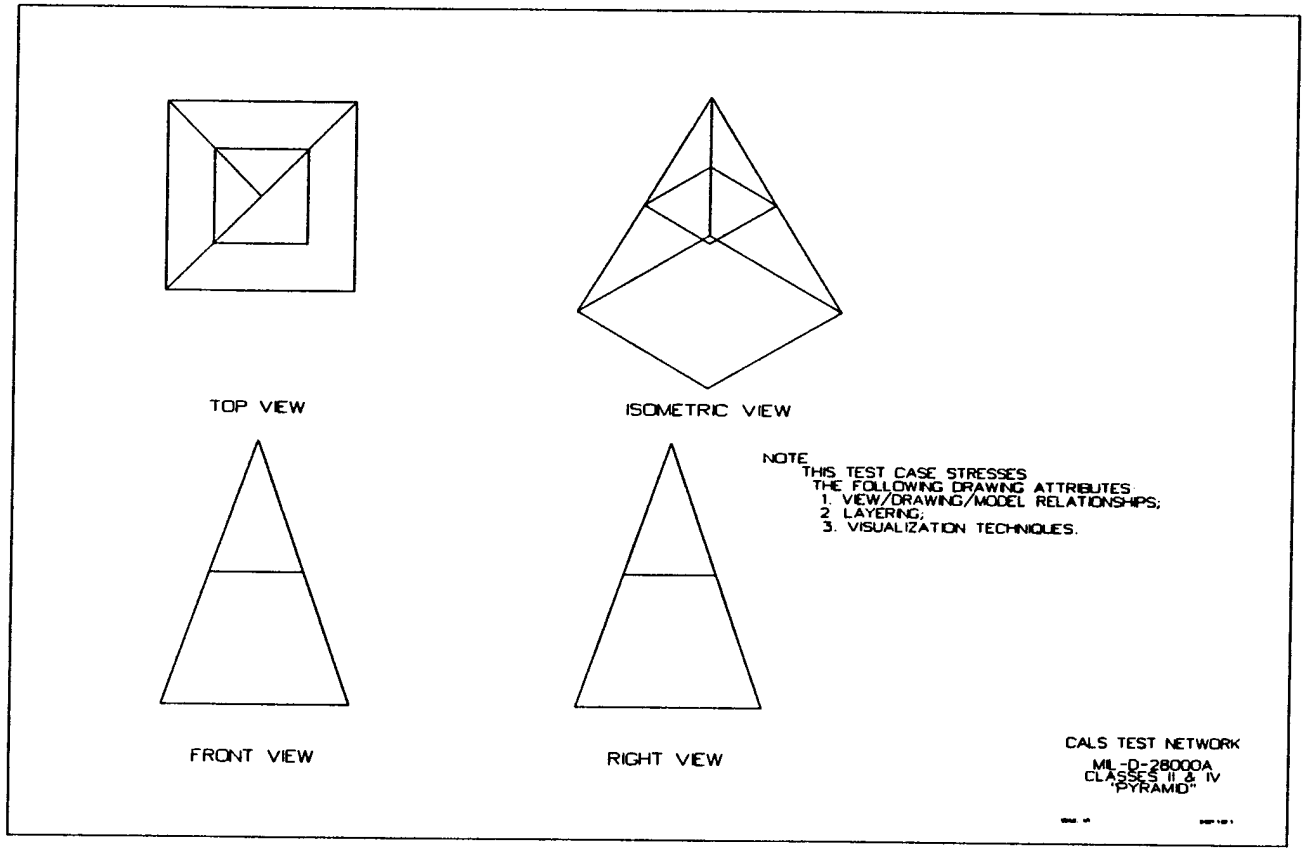
Revisions and release dates of documents to which this test case was developed:

MIL-D-28000: Revision: A, Amendment 1
Date: 14 December 1992

Test Case Development and
Verification Guide for
MIL-D-28000, Version 1.0, March 19, 1993, CTN Report 93-017

Deviations:
IGES file conforms to the above specification with an exception to the requirement on the existence of MIL-STD-1840-compliant IGES data file header records. PC-based software to generate these records and to append them onto the IGES file was not available at the time this test case was developed.

The drawing format in this test case does not comply with MIL-STD-100C.


TOP VIEW
ISOMETRIC VIEW
FRONT VIEW
RIGHT VIEW
NOTE
THIS TEST CASE STRESSES
THE FOLLOWING DRAWING ATTRIBUTES
1. VIEW/DRAWING/MODEL RELATIONSHIPS;
2. LAYERING;
3. VISUALIZATION TECHNIQUES.
CALS TEST NETWORK
MIL-D-28000A
CLASSES II & IV
"PYRAMID"

2.2. SPINDL

Version: A

Date: March 19, 1993

Concept or Application Scenario (circle one) APPLICATION SCENARIO

Criteria: Complies with Classes II and IV
Piece part manufacture application scenario
The following features are emphasized:
- taper
- threads
- slot
- drill hole
- counterbore
- blind hole

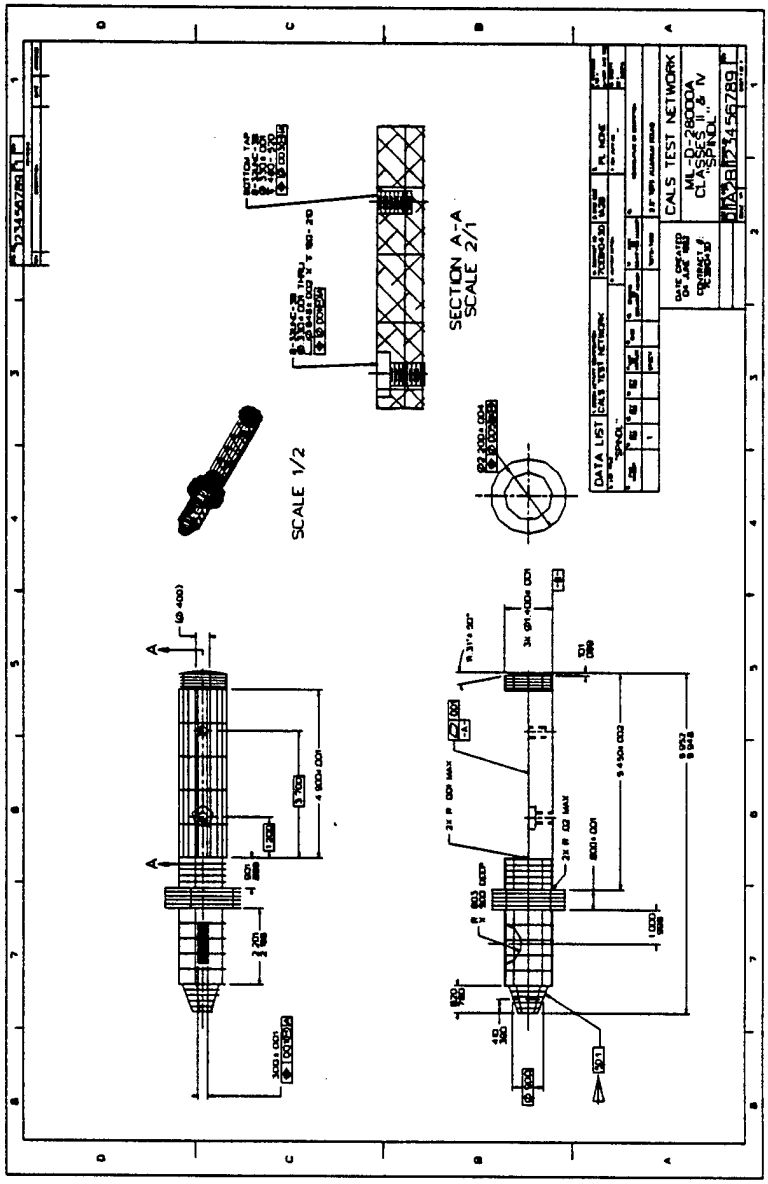
and the following annotation:
- dimensions
- tolerances
- feature control symbols

Revisions and release dates of documents to which this test case was developed:

MIL-D-28000: Revision: A, Amendment 1
Date: 14 December 1992

Test Case Development and
Verification Guide for
MIL-D-28000A, Version 1.0, March 19, 1993, CTN Report 93-017

Deviations:
Visual presentation of data base depends upon surface meshing which is not conveyed by this test case.


SECTION A-A
SCALE 2/1
SCALE 1/2
CALS TEST NETWORK
MIL-D-28000A
CLASS 1
SPNDL
DATA LIST

APPENDIX: REFERENCES

[1] Test Case Development and Verification Guide for MIL-D-28000, Version 1.0, CALS Test Network, CTN Report 93-017, March 19, 1993.

[2] Test Plan to Evaluate Computer-Aided Design Systems for MIL-D-28000 Compliance With Additional User Requirements, Version 1.0, CALS Test Network, CTN Report 93-016, March 19, 1993.

[3] Digital Representation for Communication of Product Data:IGES Application Subsets and IGES Application Protocols, Military Specification MIL-D-28000, Revision A, Amendment 1, December 14, 1992.

Copies of references [1] and [2] are available from the CALS Test Network Office which may be contacted at (513) 257-3085 or lammers@logdis1.hq.aflc.af.mil.

Copies of reference [3] are available from the Standardization Documents Order Desk, Building 4D, 700 Robbins Ave., Philadelphia, PA 19111-5094.